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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/895,278	06/29/2001	Mark Anders	10559-403001 / P10340	7194

7590 04/10/2002

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EXAMINER

FARAHANI, DANA

ART UNIT

PAPER NUMBER

2814

DATE MAILED: 04/10/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/895,278	ANDERS ET AL.	
	Examiner	Art Unit	
	Dana Farahani	2814	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 29 June 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-17 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada et al., hereinafter Wada (U.S. 6,225,846) in view of Fujita et al., hereinafter Fujita (U.S. 6,215,159).

Regarding claim 1, Wada discloses in figure 1 an input gate L6 including an input transistor P3 having an input node and an output node. Wada does not disclose two or more clocked input gates operative to place a pre-charge mode in response to a first clock signal and to place the repeater in an evaluate mode in response to a second clock signal. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use clock signals to the gates, since it was known in the art that clock signals are used to operate MOS transistors (see, for example, Fujita, figure 5A).

Regarding claim 2, Wada discloses in figure 1 the transistors include a PMOS transistor P3 coupled to E3 and an NMOS transistor N4 coupled to Vss, the input transistor N3 being connected between said PMOS and NMOS transistors.

3. Claims 3-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada in view of Fujita as applied to claim 1 above, and further in view of Rossi et al., hereinafter Rossi (U.S. 6,069,513).

Regarding claims 3 and 4, Wada discloses in figure 1 an intermediate node coupled to one of a source and a drain of the input transistor N3; an output inverter 2 having an output coupled to the output node and an input coupled to the intermediate node; Wada dose not disclose a first transistor having a gate coupled to the input node and one of a source and a drain connected to the intermediate node; and a second transistor connected in series with the first transistor, said second transistor having one of a source and a drain connected to a voltage supply. Rossi discloses in figure 6 a first transistor M4 having a gate coupled to the input node T and one of a source and a drain connected to an intermediate node B; and a second transistor M3 connected in series with the first transistor, said second transistor having one of a source and a drain connected to a voltage supply vdd. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include these transistors in Wada's invention in order to be able to have a pull up transistor at the intermediate node.

Regarding claims 5-10, Wada discloses a feedback inverter 2where the input of the inverter connected to the intermediate node and an output coupled to a gate of the second transistor P3.

Regarding claims 11-17, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the dynamic repeater in a dynamic bus in order to make the connection between the drivers and the flip flops.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (703)305-1914. The examiner can normally be reached on M-F 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703)306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7722 for regular communications and (703)308-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Dana Farahani
March 10, 2002


Olik Chaudhuri
Supervisory Patent Examiner
Technology Center 2800